CLAIMS OF AMENDMENT:

[Accepted by International Secretariat on March 10, 2005: Claims 1 to 17 of the original patent application were refused and new claims 18 to 35 were added]

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- 17. (Canceled)
- 18. (Added) A sampling rate conversion apparatus comprising:
- a conversion section that obtains a spectrum from a time domain signal having an arbitrary sampling rate through a frequency domain conversion; and

a determining section that determines a bandwidth of an extended spectrum which is added to said spectrum and extends the bandwidth of said spectrum based on said arbitrary sampling rate and desired output sampling rate.

- 19. (Added) The sampling rate conversion apparatus according to claim 18, wherein said spectrum whose bandwidth is extended is equivalent to a signal obtained by upsampling the time domain signal having said arbitrary sampling rate up to said desired output sampling rate.
 - 20. (Added) A coding apparatus comprising:
- a conversion section that obtains a spectrum from a time domain signal having an arbitrary sampling rate through a frequency domain conversion;

a determining section that determines the bandwidth of an extended spectrum which is added to said spectrum and extends the bandwidth of said spectrum based on said arbitrary sampling rate and desired output sampling rate;

a generation section that generates said extended spectrum based on said spectrum; and

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a coding section that encodes said spectrum and said extended spectrum.

- 21. (Added) The coding apparatus according to claim 20, wherein said generation section generates said extended spectrum similar to said spectrum based on said spectrum.
- 22. (Added) The coding apparatus according to claim 20,
 15 wherein said coding section divides said extended spectrum into two or more subbands and performs coding in subband units.
 - 23. (Added) A scalable coding apparatus comprising:
- a first coding section that encodes a first band of a voice signal or audio signal; and
 - a second coding section that encodes a second band of said voice signal or said audio signal,

wherein said second coding section comprises:

a conversion section that obtains a spectrum from a time domain signal having a first sampling rate obtained by said first coding section through a frequency domain

conversion;

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a determining section that determines a bandwidth of an extended spectrum which is added to said spectrum and extends the bandwidth of said spectrum based on said first sampling rate and the second sampling rate which is equivalent to said second band;

a generation section that generates said extended spectrum based on said spectrum; and

a coding section that encodes said spectrum and said 10 extended spectrum.

- 24. (Added) A communication terminal apparatus comprising the coding apparatus according to claim 20.
- 25. (Added) A base station apparatus comprising the coding apparatus according to claim 20.
 - 26. (Added) A decoding apparatus comprising:

an acquisition section that acquires coding 20 information generated by a coding apparatus;

a first conversion section that obtains a spectrum from a time domain signal having an arbitrary sampling rate included in said coding information through a frequency domain conversion;

a determining section that determines a bandwidth of an extended spectrum which is added to said spectrum and extends the bandwidth of said spectrum based on the

sampling rate of said specific time domain signal and a desired output sampling rate;

a generation section that generates said extended spectrum based on said coding information; and

- a second conversion section that obtains a time domain signal from said spectrum and said extended spectrum through a time domain conversion.
- 27. (Added) The decoding apparatus according to claim
 26, wherein said generation section generates said
 extended spectrum similar to said spectrum based on said
 coding information.
- 28. (Added) The decoding apparatus according to claim
 15 26, wherein said extended spectrum is divided into two
 or more subbands and includes coding information of said
 extended spectrum which is coded in subband units.
- 29. (Added) A scalable decoding apparatus comprising:
 a first decoding section that decodes a first band of a voice signal or audio signal; and

a second decoding section that decodes said second band of said voice signal or said audio signal,

wherein said second decoding section comprises:

a first conversion section that obtains a spectrum from a time domain signal of a first sampling rate obtained by said first decoding section through a frequency domain

conversion;

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a determining section that determines a bandwidth of an extended spectrum which is added to said spectrum and extends the bandwidth of said spectrum based on said first sampling rate and a second sampling rate which is equivalent to said second band;

a generation section that generates said extended spectrum based on coding information generated by a scalable coding apparatus; and

a second conversion section that obtains a time domain signal from said spectrum and said extended spectrum through a time domain conversion.

30. (Added) The scalable decoding apparatus according to claim 29, further comprising a third decoding section that decodes a third band of said voice signal or said audio signal,

wherein said third decoding section generates a spectrum from a time domain signal of said first sampling rate, applies processing such as zero insertion or deletion to the high frequency part of the spectrum, obtains a spectrum of said third band and converts the spectrum of said third band to a time domain signal.

25 31. (Added) A communication terminal apparatus comprising the decoding apparatus according to claim 26.

- 32. (Added) A base station apparatus comprising the decoding apparatus according to claim 26.
- 33. (Added) A sampling rate conversion method comprising:
- a step of obtaining a spectrum from a time domain signal having an arbitrary sampling rate through a frequency domain conversion; and

a step of determining the bandwidth of an extended spectrum which is added to said spectrum and extends the bandwidth of said spectrum based on said arbitrary sampling rate and desired output sampling rate.

- 34. (Added) A coding method comprising:
- a step of obtaining a spectrum from a time domain

 15 signal having an arbitrary sampling rate through a

 frequency domain conversion;
 - a step of determining a bandwidth of an extended spectrum which is added to said spectrum and extends the bandwidth of said spectrum based on said arbitrary sampling rate and desired output sampling rate;
 - a step of generating said extended spectrum based on said spectrum; and
 - a step of coding said spectrum and said extended spectrum.

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- 35. (Added) A decoding method comprising:
 - a step of acquiring coding information generated

by a coding apparatus;

a step of obtaining a spectrum from a time domain signal having an arbitrary sampling rate included in said coding information through a frequency domain conversion;

a step of determining a bandwidth of an extended spectrum which is added to said spectrum and extends the bandwidth of said spectrum based on the sampling rate of said specific time domain signal and desired output sampling rate;

a step of generating said extended spectrum based on said coding information; and

a step of obtaining a time domain signal from said spectrum and said extended spectrum through a time domain conversion.